

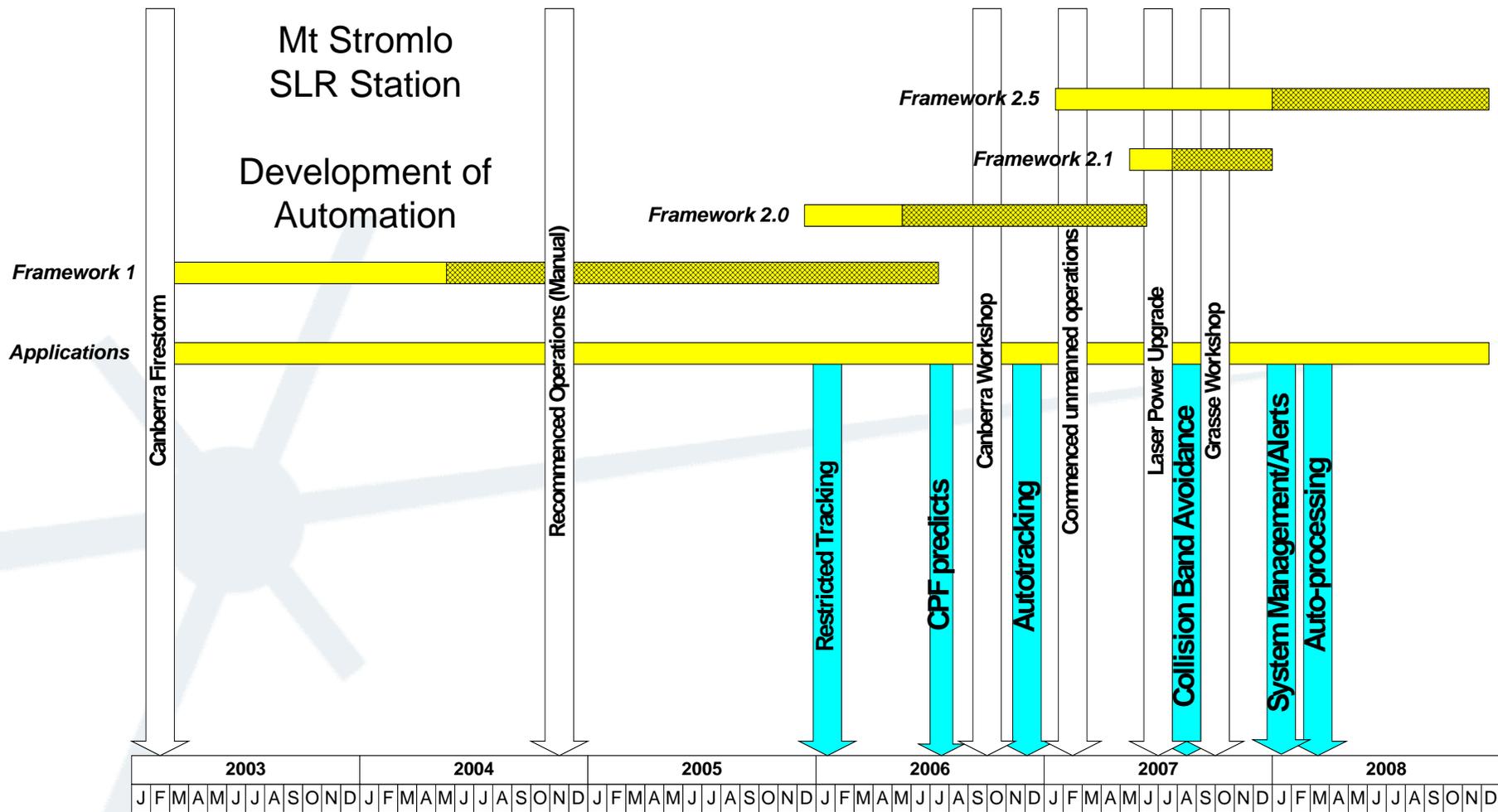


EOS

Re-implementation of automation
at Mount Stromlo SLR Station

Chris Moore

Timeline



27 May 2004

Progress and Issues



- IT and infrastructure
- Software development
- Current Operations
- Plans

27 May 2004

IT/Infrastructure



- LAN – distributed processing, redundancy
- Broadband connection to Corporate Network
- Security Issues (SPAM, Malware, Viruses, Access, Policies, Firewalls, Virus Checkers etc.)
- Remote Access – network access, external access via VPN
- Archives/backups

Software Development



- Client Server Architecture
- Distributed servers
- Flexible, configurable and responsive to system changes
- Complex, concurrent processes/multithreading
- Stability and reliability issues
- Remote logging/debugging/upgrading
- Cross-platform - use of Qt to develop GUI applications.

Current Operations



- Auto-tracking installed in Jan 2007.
- Increased unmanned operations during 2007.
- Power upgrade completed in July.
- Data publication issues.
- New release of software –stability improved and includes collision band avoidance.
- Remote monitoring.

Plans



- Complete development of data processing and publication
 - data output as XML files
 - generate NP,FR and CRD reports
- Complete framework development
- Add system management and alerts
- Add auto-processing functionality